

C2  
(cont)

5', .... For instance, in case that spurious has occurred in a high frequency resonator that has been manufactured, the following countermeasures can be taken. Using the terminals T1, T2, T3, and T4 illustrated in Fig. 4(a), there is measured the frequency of such resonator. And only if finely adjusting the high-value portions of this frequency by methods of evaporating, etc. it would be sufficient. Similarly to Fig. 4(a), in the second version of Fig. 4(b), a plurality of second electrodes 5'b are provided on the crystal plate 1 opposing the plurality of second electrode 5' together with another electrode 7b.

IN THE CLAIMS:

Please amend claim 1 as follows:

C3

1. (Amended) A high frequency piezoelectric resonator, the piezoelectric resonator including a piezoelectric plate having disposed on its main surfaces, respectively, mutually opposing main electrode for the excitation and at least one second electrode disposed surrounding the peripheral edge of its corresponding main electrode with a gap in between, wherein:

the material of the main electrode and the material of the second electrode are different from each other.

[Please amend claim 2 (amended) as follows:]

2. (Twice Amended) A high frequency piezoelectric resonator according to claim 1, wherein the density of the material of the second electrode is made lower than that of the main electrode; and wherein  $f_1 < f_3 < f_2$  is satisfied in which a cutoff frequency of the main electrode is  $f_1$ , a cutoff frequency of the gap is  $f_2$ , and a cutoff frequency of the second electrode is  $f_3$ .

Please amend claim 5 as follows:

C4

5. (Amended) A high frequency piezoelectric resonator including a piezoelectric plate, one main surface of the piezoelectric plate being recessed to thereby form a thin portion therein, the main surface opposing the recess corresponding to the thin portion having thereon at its central portion a convex portion formed integrally with the piezoelectric plate, the convex portion having formed thereon a main electrode for the

C4  
Cont

excitation, a lead electrode being extended from the main electrode toward an edge of the plate, a second electrode being so provided as to surround the main electrode and the lead electrode with a gap in between, the piezoelectric plate having applied on a recess side thereof an entire electrode.

Please amend claim 7 as follows:

C5

7. (Amended) A high frequency piezoelectric resonator according to claim 1 or 2, wherein  
said at least one second electrode is divided into a plurality of portions; and  
adjustment of frequency is performed on said at least one second electrode so that  
frequency of each one of electrode portions of said at least one of the divided second  
electrode has a uniformity.

Please amend claim 9 has been amended as follows:

9. (Amended) A high frequency piezoelectric resonator according to claim 3,  
wherein  
said at least one second electrode is divided into a plurality of portions; and  
adjustment of frequency is performed on said at least one second electrode so that  
frequency of each one of electrode portions of said at least one of the divided second  
electrode has a uniformity.

C6

[Please amend claim 10 as follows:]

10. (Amended) A high frequency piezoelectric resonator according to claim 4,  
wherein  
said at least one second electrode is divided into a plurality of portions; and  
adjustment of frequency is performed on said at least one second electrode so that  
frequency of each one of electrode portions of said at least one of the divided second  
electrode has a uniformity.

[Please amend claim 11 as follows:]